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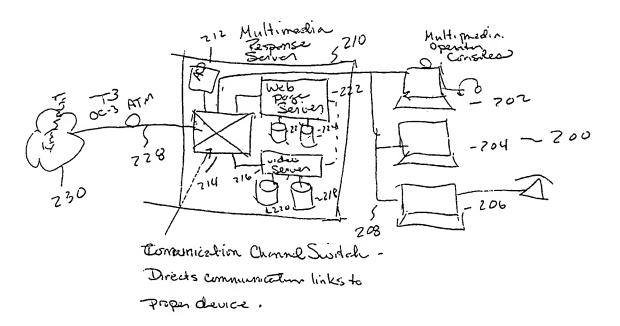
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(54) Title: METHOD AND APPARATUS FOR WEB INQUIRY RESPONSE VIA INTERNET VIDEO



(57) Abstract

An interactive data communication user is connected through a network (230) to a multimedia response server (210). The user presses an appropriate keyboard or mouse clicks on an appropriately labeled button on a data page. An automatic call distribution device (212) switches the session to a customer service queue for routing to the next available customer service representative (202). When the interactive session between the user and the customer device representative (202) is completed, session control passes back to the data page server (222) and a normal interactive session is resumed.

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METHOD AND APPARATUS FOR WEB INQUIRY RESPONSE VIA INTERNET VIDEO

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates generally to customer response networks and in particular to internet based response networks.

DESCRIPTION OF THE RELATED ART

Many companies establish and maintain home pages on
the Internet's World Wide Web. These home pages may provide
an electronic market place to users with a computer,
appropriate software and internet access. Companies may set
up layered directories that provide information in the form
of electronic catalogs or brochures. Often a point of contact
such as a telephone number or electronic mail address is
provided as a link in the event a user requires more
information or has a question for the company.

Current data services on the Web are interactive in the sense that information content is provided to a user

20 based on keyboard or mouse input from that user. However, this response is limited to pre-programmed or "canned" text, video and/or audio. As services migrate to higher bandwidth requirements and capabilities there is an increasing demand for interactive videophone sessions.

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There is accordingly a need for a new method and apparatus to provide an interactive live video session capability between a user and a company's representative in order to facilitate the transfer of information in an effective real-time manner.

SUMMARY OF THE INVENTION

The method and apparatus of the present invention is accomplished by having a customer or user situated at one of many user computer terminals connected to the Internet.

The user accesses a company's World Wide Web Internet home page in an Internet session and decides that more information is needed and would appreciate interacting with a live customer service representative.

The user presses an appropriate keyboard or mouse clicks on an appropriately labeled button on the Web page.

An automatic call distribution device switches the session to a customer service queue for routing to the next available customer service representative. When the interactive session between the user and the customer service representative is completed, session control passes back to the web page server and a normal interactive session is resumed.

One advantage of the present invention allows the user and customer service representative to conduct an interactive video session.

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Another advantage of the present invention allows the user and customer service representative to conduct an interactive audio session.

Another advantage of the present invention allows

5 the user and customer service representative to conduct an
interactive audio/video session.

Still another advantage of the present invention allows the user and customer service representative to both simultaneously view portions of the same display on each of their respective video display monitors.

Further features of the above-described invention will become apparent from the detailed description hereinafter.

The foregoing features together with certain other

15 features described hereinafter enable the overall system to

have properties differing not just by a matter of degree from

any related art, but offering an order of magnitude more

efficient use of processing time and resources.

Additional features and advantages of the invention will be set forth in part in the description which follows, and in part will be apparent from the description, or may be learned by practice of the invention. The advantages of the invention will be realized and attained by means of the

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elements and combinations particularly pointed out in the appended claims.

It is to be understood that both the foregoing general description and the following detailed description

5 are exemplary and explanatory only and are not restrictive of the invention, as claimed.

The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate preferred embodiments of the apparatus and method according to the invention and, together with the description, serve to explain the principles of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 illustrates a block diagram of the data network of the present invention.

15 Fig. 2 illustrates a block diagram of the multimedia response server of the present invention.

Fig. 3 illustrates a flowchart depiction of the methodology of the present invention.

DETAILED DESCRIPTION

20 Referring now to Fig. 1, the data network 100 of the present invention will now be discussed. A customer or user is situated at one of many user terminals 102,106,110,136,138 which may be a personal computer, graphic

enhanced mobile device such as a laptop PC, Java phone or a personal digital assistant (PDA).

The customer may be connected via an analog or digital (either an Integrated Services Digital Network (ISDN) or xDSL) connection to a Class 5 (local telephone switching) office 108, which in turn is connected to a tandem switch 114. Tandem switch 114 is capable of making both local and toll (long distance) telephone connections and is connected through modem 120, direct connection or ISDN 118 connection to Asynchronous Transfer Mode (ATM) interface 128.

ATM interface 128 is connected to ATM backbone 130. ATM backbone 130 supplies the interconnections and transport mechanisms of the data communications network, or Internet of the preferred embodiment. These transport mechanisms are well known and thus need not be further explained here.

Customers are also connected through terminals 136,138 to the Internet embodied by ATM backbone 130 through Local Area Network (LAN) 134. LAN direct connectivity is an alternative to dial-up connections.

A live person acting as a Company's agent or customer service representative is stationed at agent terminal 124. Terminal 124 contains an autodialer which automatically dials a preprogrammed or an entered telephone number from telephone 122. This telephone number is the

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telephone number of the customer who has entered his/her own telephone number sometime during a Web page access session.

The telephone call placed by the Customer service agent located at terminal 124 through telephone 122 is switched through tandem switch 116 to class 5 central office 104 to the customer.

In an alternative embodiment, a customer may be connected through a mobile terminal via a wireless data link provided by a cellular, PCS or other wireless service provider.

Corporate Web Server 132 is connected to ATM backbone 130 through a direct connection.

In an alternate embodiment, the corporate Web Server, stationary or mobile, may also be connected via a similar wireless data link interfaced to the Internet.

Referring now to Fig. 2, Corporate Web Server 200 will now be discussed in further detail. Multimedia response server 210 is connected to the Internet 230 via ATM link 228. ATM link 228 is typically either across a T-3 carrier operating at approximately 44 MHz or is an OC-48 (or higher) Synchronous Optical Network (SONET) connection. The details of such connections are well known and need not be discussed further.

The T-3 interconnection 228 interconnects with Multimedia Response Server 210 at the communication channel switch 214. Communication channel switch 214 is controlled by Web page server 222. Also connected to communication channel switch 214 are the Automatic Call Distribution (ACD) unit 212, video server 216 and multiple multimedia operator consoles 202,204,206.

Communication channel switch 214 is a Northern Telecom Magellan, Vector or other suitable switch.

Web page server 222 operates to supply content to customers who access the Web page, controls connections to and from communication channel switch 214.

Video server 216 supplies high bandwidth video to customers accessing the Web page through communication channel switch 214.

Automatic Call Distribution (ACD) 212 unit operates by transferring a customer who has requested more information into a queue for service by the next available operator stationed at one of the multimedia operator consoles

20 202,204,206. A customer who is accessing the Web page on the Web server typically mouse clicks on a hot button or link found on the Web page. This link is identified as a channel for selecting a live interactive video session with a human operator. Upon availability of the human operator at one of

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the multiple multimedia operator consoles 202,204,206 the interactive video session is conducted. Upon termination of the interactive multimedia session, the connection is taken down and the next queued interactive multimedia session is initiated.

Multimedia operator consoles 202,204,206 and customer terminals 102,106,110,136,136 are equipped with appropriate multimedia equipment and software. Typical equipment includes commercial off the shelf

10 microphones/headsets with speakers, digital signal processor based peripheral sound cards and a video camera with its video interface to the terminals and consoles.

When the customer initiates the interactive multimedia session the content of the customer's screen is accessible by the agent on the multimedia operator console. The session participants are also able to view each other through the video camera output portion of the link and are able to converse audibly to conduct business.

The customer agent is able to see exactly what the customer is trying to describe and is therefore capable of answering questions and solving problems in a much more time efficient manner without tying up more resources.

The customer agent is able to diagnose conditions and problems on a customer's computer in real-time or near

real-time and can download software to determine configurations, correct errors, modify settings and add or delete software modules as desired. Of course, the multimedia response server automates many of these functions and does not require a human customer agent in many of these situations.

Referring now to Fig. 3, the methodology 300 of the present invention will now be discussed. The process begins in step 302 with the program Start function. In step 304, the Web server makes the Web page available to customers over the Internet or any other suitable public or private data network.

A Customer accesses the Web page from his/her computer terminal using the appropriate physical connection and software.

As an example, if the Web page is for a travel agent, the customer could search for airline flights to a desired destination at a particular time and for a particular price. If the specific parameters defined do not result in a satisfactory result for the customer, or if at any time during a session live human interaction is desired or required, then the customer clicks on the graphical hot button or link and is transferred in step 308 by an automatic distribution mechanism via the above described invention to a

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PCT/US98/14089

live interactive multimedia session in step 310 in an effort to satisfy the customer's request. Upon completion of the session, control passes to step 312, Stop.

Other such embodiments of the invention will be

apparent to those skilled in the art from consideration of
the specification and practice of the invention disclosed
herein. It is readily apparent that the above described
invention may be implemented in other types of data networks,
public and private, including an intranet or an internet,

whereby these terms denote an either an internal network of
computers or any internetworking of communication devices. It
is intended that the specification and examples be considered
as exemplary only, with a true scope and spirit of the
invention being indicated by the following claims.

CLAIMS

1. An apparatus for conducting a multimedia communication over a data communications network comprising:

means for receiving an incoming query from an external user;

means for identifying said incoming query as a
multimedia call request;

means for generating a multimedia communication.

- 2. An apparatus for conducting a multimedia communication over a data communications network as in claim 1 wherein said data communications network is characterized by a switching mechanism operably connected to a first server control mechanism for passing data to an operations console for communication processing.
- 15 3. An apparatus for conducting a multimedia communication over a data communications network as in claim 2 wherein said data communication network includes an interactive capability.
- 4. An apparatus for conducting a multimedia communication

 20 over a data communications network as in claim 3 wherein said

 data communication network includes a real time capability.
 - 5. An apparatus for conducting a multimedia communication over a data communications network as in claim 3 wherein said

data communication network includes at least a near real time capability.

- 6. An apparatus for conducting a multimedia communication over a data communication network as in claim 5 further
- 5 includes means for automatically distributing said incoming query to one of a particular destination based on a predetermined criteria.
- 7. An apparatus for conducting a multimedia communication over a data communication network as in claim 6 wherein said particular destination is internal to said network.
 - 8. An apparatus for conducting a multimedia communication over a data communication network as in claim 6 wherein said particular destination is external to said network.
- 9. An apparatus for conducting a multimedia communication

 15 over a data communication network as in claim 6 wherein said

 particular destination is an interactive station for

 conducting a customer service transaction.
 - 10. An apparatus for conducting a multimedia communication over a data communication network as in claim 9 further
- including a second server control mechanism for passing data to said switching mechanism for routing to an external destination.
 - 11. A method for conducting a multimedia communication over a data communications network comprising the steps of:

receiving an incoming query from an external user; identifying said incoming query as a multimedia call request;

generating a multimedia communication.

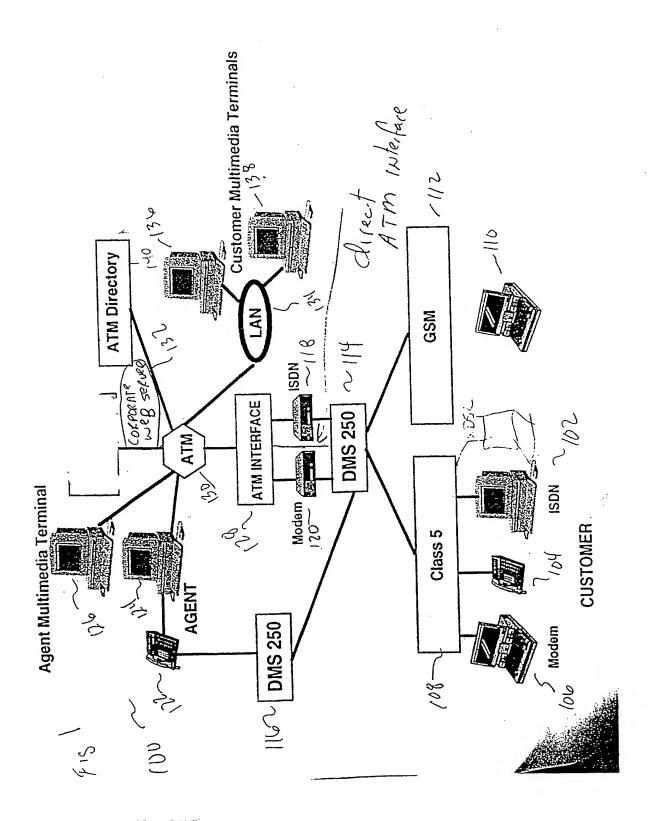
- 5 12. A method for conducting a multimedia communication over a data communications network as in claim 11 wherein said data communications network further including the step of having a first switching mechanism operably connected to a server control mechanism passing data to an operations console for communication processing.
 - 13. A method for conducting a multimedia communication over a data communications network as in claim 12 wherein said data communication network includes the step of having an interactive capability.
- 15 14. A method for conducting a multimedia communication over a data communications network as in claim 13 wherein said data communication network includes the step of interacting in a real time mode.
- 15. A method for conducting a multimedia communication over
 20 a data communications network as in claim 13 wherein said
 data communication network includes the step of interacting
 in an at least near real time mode.
 - 16. A method for conducting a multimedia communication over a data communication network as in claim 15 further includes

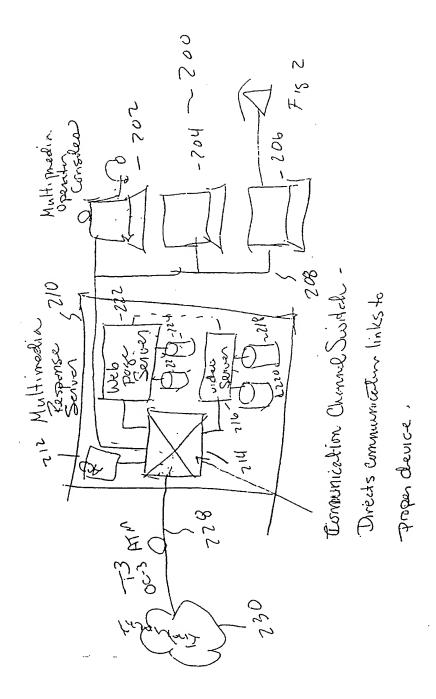
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the step of automatically distributing said incoming query to one of a particular destination based on a predetermined criteria.

- 17. A method for conducting a multimedia communication over

 5 a data communication network as in claim 16 wherein said
 particular destination is internal to said network.
 - 18. A method for conducting a multimedia communication over a data communication network as in claim 16 wherein said particular destination is external to said network.
- 19. A method for conducting a multimedia communication over a data communication network as in claim 16 wherein said particular destination is an interactive station for conducting a customer service transaction.
- 20. A method for conducting a multimedia communication over
 15 a data communication network as in claim 19 further including
 the step of having a second server control mechanism pass
 data to said switching mechanism for routing to an external
 destination.





2 / 3

WO 99/12100 PCT/US98/14089 START 302-SCLUCR MAKES 304 WEB PAGE AVAILABLE SELVER RECEIVES -306 INPUT FROM USPR SELECTION SERVER PLACES REQUEST INTO AUTOMATIC CALL 308 DISTRIBUTION QUEUE INTERACTIVE. session 15 Ton purted 312

Fig 3

INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/14089

A. CLASSIFICATION OF SUBJECT MATTER IPC(6) :G06F 13/00							
US CL: Please See Extra Sheet. According to International Patent Classification (IPC) or to both national classification and IPC							
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Documental	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic o	data base consulted during the international search (n	ame of data base and, where practicable	e, search terms used)				
APS & I	-	•					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.				
X,P	US 5,778,178 A (ARUNACHALAM) 07 JULY 1998, THE 1-2 ABSTRACT, LINES 2-3, COL 2, LINES 34-44, COL 5, LINES 20-67, COL 6, COL 7, LINES 4-33, LINES 48-57, COL 9, LINES 9-11, LINES 25-40.						
A	US 5,796,393 A (MACNAUGHTON ET AL) 18 AUGUST 1998, COL 1, LINES 25-27, COL 2, LINES 43-45, COL 3, LINES 59-67, COL 4, LINES 19-24, COL 5, LINES 48-60, COL 8, LINES 10-23.						
A	US 5,806,043 A (TOADER) 08 ABSTARCT, COL 2, LINES 8-67, COL 3 13-18, LINES 40-57, COL 6, LINES 2	1-20					
Further documents are listed in the continuation of Box C. See patent family annex.							
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "A" document defining the general state of the art which is not considered to be of particular relevance "B" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
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cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is							
m•	means being obvious to a person skilled in the art						
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A. CLASSIFICATION OF SUBJECT MATTER: US CL:	
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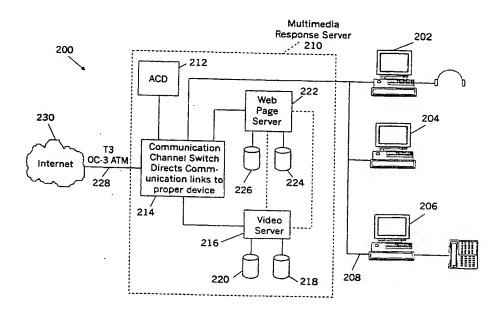
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enhanced mobile device such as a laptop PC, Java phone or a personal digital assistant (PDA).

The customer may be connected via an analog or digital (either an Integrated Services Digital Network (ISDN) or xDSL) connection to a Class 5 (local telephone switching) office 108, which in turn is connected to a tandem switch 114. Tandem switch 114 is capable of making both local and toll (long distance) telephone connections and is connected through modem 120, direct connection or ISDN 118 connection to Asynchronous Transfer Mode (ATM) interface 128.

ATM interface 128 is connected to ATM backbone 130.

ATM backbone 130 supplies the interconnections and transport mechanisms of the data communications network, or Internet of the preferred embodiment. These transport mechanisms are well known and thus need not be further explained here.

Customers are also connected through terminals 136,138 to the Internet embodied by ATM backbone 130 through Local Area Network (LAN) 134. LAN direct connectivity is an alternative to dial-up connections.

A live person acting as a Company's agent or customer service representative is stationed at agent terminal 124. Terminal 124 contains an autodialer which automatically dials a preprogrammed or an entered telephone number from telephone 122. This telephone number is the

WO 99/12100

telephone number of the customer who has entered his/her own telephone number sometime during a Web page access session.

The telephone call placed by the Customer service agent located at terminal 124 through telephone 122 is switched through tandem switch 116 to class 5 central office 104 to the customer.

In an alternative embodiment, a customer may be connected through a mobile terminal via a wireless data link provided by a cellular, PCS or other wireless service provider.

Corporate Web Server 132 is connected to ATM backbone 130 through a direct connection.

In an alternate embodiment, the corporate Web Server, stationary or mobile, may also be connected via a similar wireless data link interfaced to the Internet.

Referring now to Fig. 2, Corporate Web Server 200 will now be discussed in further detail. Multimedia response server 210 is connected to the Internet 230 via ATM link 228. ATM link 228 is typically either across a T-3 carrier operating at approximately 44 MHz or is an OC-48 (or higher) Synchronous Optical Network (SONET) connection. The details of such connections are well known and need not be discussed further.

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The T-3 interconnection 228 interconnects with Multimedia Response Server 210 at the communication channel switch 214. Communication channel switch 214 is controlled by Web page server 222. Also connected to communication channel switch 214 are the Automatic Call Distribution (ACD) unit 212, video server 216 and multiple multimedia operator consoles 202,204,206.

Communication channel switch 214 is a Northern Telecom Magellan, Vector or other suitable switch.

Web page server 222 operates to supply content to customers who access the Web page, controls connections to and from communication channel switch 214.

Video server 216 supplies high bandwidth video to customers accessing the Web page through communication channel switch 214.

Automatic Call Distribution (ACD) 212 unit operates by transferring a customer who has requested more information into a queue for service by the next available operator stationed at one of the multimedia operator consoles

20 202,204,206. A customer who is accessing the Web page on the Web server typically mouse clicks on a hot button or link found on the Web page. This link is identified as a channel for selecting a live interactive video session with a human operator. Upon availability of the human operator at one of

the multiple multimedia operator consoles 202,204,206 the interactive video session is conducted. Upon termination of the interactive multimedia session, the connection is taken down and the next queued interactive multimedia session is initiated.

Multimedia operator consoles 202,204,206 and customer terminals 102,106,110,136,136 are equipped with appropriate multimedia equipment and software. Typical equipment includes commercial off the shelf

microphones/headsets with speakers, digital signal processor based peripheral sound cards and a video camera with its video interface to the terminals and consoles.

When the customer initiates the interactive multimedia session the content of the customer's screen is accessible by the agent on the multimedia operator console. The session participants are also able to view each other through the video camera output portion of the link and are able to converse audibly to conduct business.

The customer agent is able to see exactly what the customer is trying to describe and is therefore capable of answering questions and solving problems in a much more time efficient manner without tying up more resources.

The customer agent is able to diagnose conditions and problems on a customer's computer in real-time or near

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real-time and can download software to determine configurations, correct errors, modify settings and add or delete software modules as desired. Of course, the multimedia response server automates many of these functions and does not require a human customer agent in many of these situations.

Referring now to Fig. 3, the methodology 300 of the present invention will now be discussed. The process begins in step 302 with the program Start function. In step 304, the Web server makes the Web page available to customers over the Internet or any other suitable public or private data network.

A Customer accesses the Web page from his/her computer terminal using the appropriate physical connection and software.

As an example, if the Web page is for a travel agent, the customer could search for airline flights to a desired destination at a particular time and for a particular price. If the specific parameters defined do not result in a satisfactory result for the customer, or if at any time during a session live human interaction is desired or required, then the customer clicks on the graphical hot button or link and is transferred in step 308 by an automatic distribution mechanism via the above described invention to a

live interactive multimedia session in step 310 in an effort to satisfy the customer's request. Upon completion of the session, control passes to step 312, Stop.

Other such embodiments of the invention will be

apparent to those skilled in the art from consideration of
the specification and practice of the invention disclosed
herein. It is readily apparent that the above described
invention may be implemented in other types of data networks,
public and private, including an intranet or an internet,

whereby these terms denote an either an internal network of
computers or any internetworking of communication devices. It
is intended that the specification and examples be considered
as exemplary only, with a true scope and spirit of the
invention being indicated by the following claims.

CLAIMS

1. An apparatus for conducting a multimedia communication over a data communications network comprising:

means for receiving an incoming query from an external suser;

means for identifying said incoming query as a multimedia call request;

means for generating a multimedia communication.

- 2. An apparatus for conducting a multimedia communication over a data communications network as in claim 1 wherein said data communications network is characterized by a switching mechanism operably connected to a first server control mechanism for passing data to an operations console for communication processing.
- An apparatus for conducting a multimedia communication over a data communications network as in claim 2 wherein said data communication network includes an interactive capability.
- An apparatus for conducting a multimedia communication
 over a data communications network as in claim 3 wherein said data communication network includes a real time capability.
 - 5. An apparatus for conducting a multimedia communication over a data communications network as in claim 3 wherein said

data communication network includes at least a near real time capability.

- 6. An apparatus for conducting a multimedia communication over a data communication network as in claim 5 further
- includes means for automatically distributing said incoming query to one of a particular destination based on a predetermined criteria.
 - 7. An apparatus for conducting a multimedia communication over a data communication network as in claim 6 wherein said particular destination is internal to said network.
 - 8. An apparatus for conducting a multimedia communication over a data communication network as in claim 6 wherein said particular destination is external to said network.
- 9. An apparatus for conducting a multimedia communication

 15 over a data communication network as in claim 6 wherein said

 particular destination is an interactive station for

 conducting a customer service transaction.
 - 10. An apparatus for conducting a multimedia communication over a data communication network as in claim 9 further
- including a second server control mechanism for passing data to said switching mechanism for routing to an external destination.
 - 11. A method for conducting a multimedia communication over a data communications network comprising the steps of:

receiving an incoming query from an external user; identifying said incoming query as a multimedia call request;

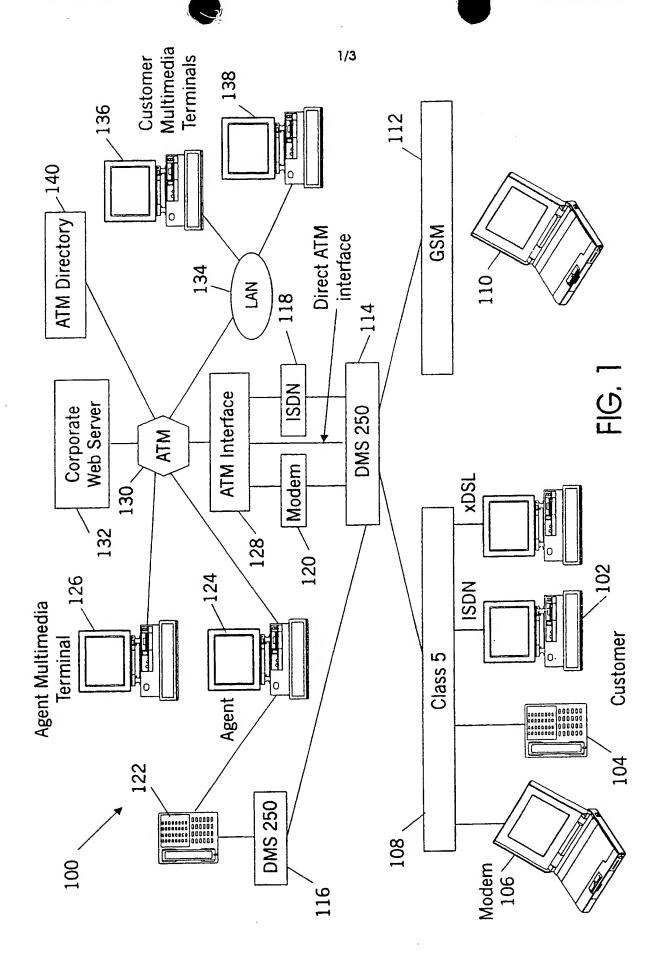
generating a multimedia communication.

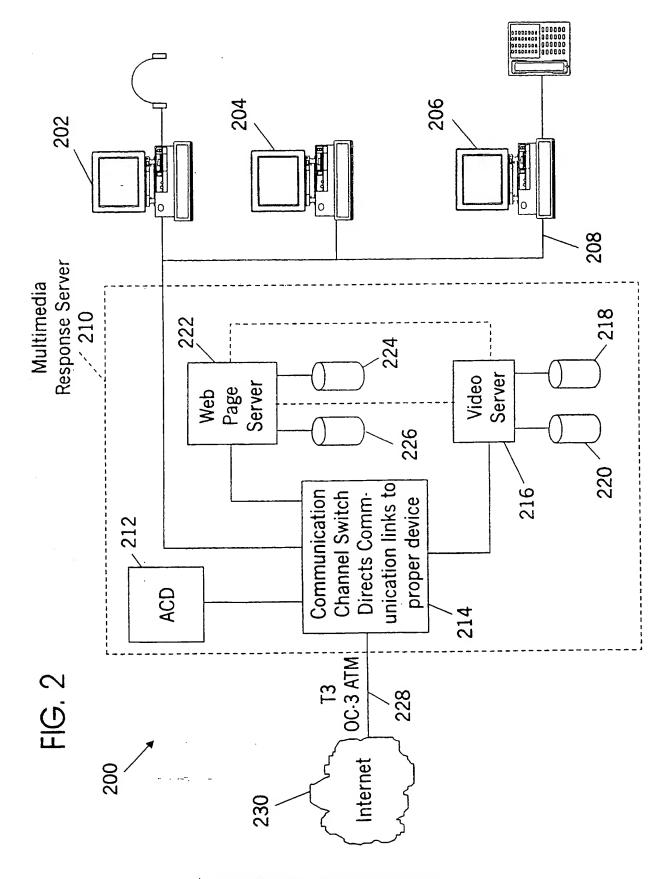
- 5 12. A method for conducting a multimedia communication over a data communications network as in claim 11 wherein said data communications network further including the step of having a first switching mechanism operably connected to a server control mechanism passing data to an operations
 10 console for communication processing.
 - 13. A method for conducting a multimedia communication over a data communications network as in claim 12 wherein said data communication network includes the step of having an interactive capability.
- 15 14. A method for conducting a multimedia communication over a data communications network as in claim 13 wherein said data communication network includes the step of interacting in a real time mode.
- 15. A method for conducting a multimedia communication over
 20 a data communications network as in claim 13 wherein said
 data communication network includes the step of interacting
 in an at least near real time mode.
 - 16. A method for conducting a multimedia communication over a data communication network as in claim 15 further includes

the step of automatically distributing said incoming query to one of a particular destination based on a predetermined criteria.

- 17. A method for conducting a multimedia communication over a data communication network as in claim 16 wherein said particular destination is internal to said network.
 - 18. A method for conducting a multimedia communication over a data communication network as in claim 16 wherein said particular destination is external to said network.
- 19. A method for conducting a multimedia communication over a data communication network as in claim 16 wherein said particular destination is an interactive station for conducting a customer service transaction.
- 20. A method for conducting a multimedia communication over

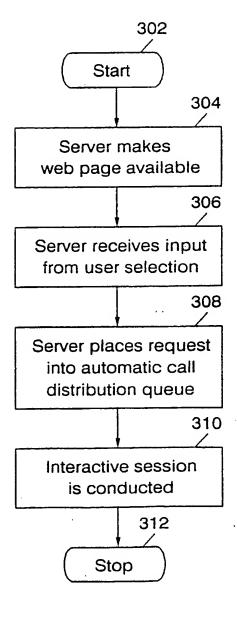
 15 a data communication network as in claim 19 further including
 the step of having a second server control mechanism pass
 data to said switching mechanism for routing to an external
 destination.





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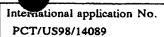
FIG. 3



International application No.

PCT/US98/14089

A. CLASSIFICATION OF SUBJECT MATTER IPC(6) :G06F 13/00 US CL :Please See Extra Sheet.							
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED							
	ocumentation searched (classification system follow	red by classification symbols)					
	395/200.33, 200.34, 200.36, 200.47, 200.48, 200.						
Documentati	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic d	ata base consulted during the international search (name of data base and, where practicable	search terms used)				
APS & D			, 300,011 07,1110 0300)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.				
X,P	P US 5,778,178 A (ARUNACHALAM) O7 JULY 1998, THE 1-20 ABSTRACT, LINES 2-3, COL 2, LINES 34-44, COL 5, LINES 20-67, COL 6, COL 7, LINES 4-33, LINES 48-57, COL 9, LINES 9-11, LINES 25-40.						
A	US 5,796,393 A (MACNAUGHTON ET AL) 18 AUGUST 1998, COL 1, LINES 25-27, COL 2, LINES 43-45, COL 3, LINES 59-67, COL 4, LINES 19-24, COL 5, LINES 48-60, COL 8, LINES 10-23.						
A	US 5,806,043 A (TOADER) 08 ABSTARCT, COL 2, LINES 8-67, COL 3 13-18, LINES 40-57, COL 6, LINES 2	, LINES 12-16, COL 4, LINES	I-20				
Furthe	er documents are listed in the continuation of Box (C. See patent family annex.					
Special categories of cited documents: A* document defining the general state of the art which is not considered		"T" later document published after the inte- date and not in conflict with the appli the principle or theory underlying the	cation but cited to understand				
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	ment published prior to the international filing date but later than priority date claimed	*&" document member of the same patent family					
Date of the actual completion of the international search Date of mailing of the international search report							
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Box PCT Washington,	D.C. 20231	MOUSTAFA M. MEKY					
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A. CLASSIFICATION OF SUBJECT MATTER: US CL :						
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